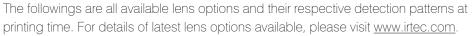


PIR Occupancy Sensor LENS DATASHEET

IR-TEC's TRANS and OS-NET PIR based Occupancy Sensors feature with interchangeable lens options. Each lens provides different sensing coverage which varies with the actual mounting height.

The specified detection coverage and mounting height of each lens are based on the test result of human motion walking across the detection zones. The actual coverage may be reduced if the motion is moving toward or away the sensor. High ambient temperature (above 82°F/28°C) could reduce the coverage of PIR sensor. If ambient temperature at the covered area are expected to be high sometimes, consider adding more sensors or reduce the mounting height, if possible.







LENS OPTIONS

Lens			Shape	Recommended Mounting Height		Coverage
А		Standard	Cone	8~15 ft.	2.4~4.5m	2X height
В	0	Extra wide	Cone	8~10 ft.	2.4~3.0m	6X height
С		High bay	Cone	15~30 ft.	4.5~9.0m	3X height
D	0	Standard	Round flat	8~20 ft.	2.4~6.0m	2X height
F		Extra wide	Dome	8~20 ft.	2.4~6.0m	4X height
G		Aisle way	Arch	8~40 ft.	2.4~12.0m	3X height
Н		High bay	Dome	30~50 ft.	9.0~15.0m	1X height

NOTE:

- Lens G can be rotated to change the direction of coverage. Its 3X height coverage refers only to the total length, the width of coverage will vary with the mounting height (see table of Lens G section). This lens is not IP-66 rated.
- Lens C/G may be mounted up to 40/50 ft. (12/15m) or higher at the area, providing with large moving object such as forklift trucks. Before installing all sensors, please ensure that the sensor can have optimal detection at desired height.



LENS DATASHEET





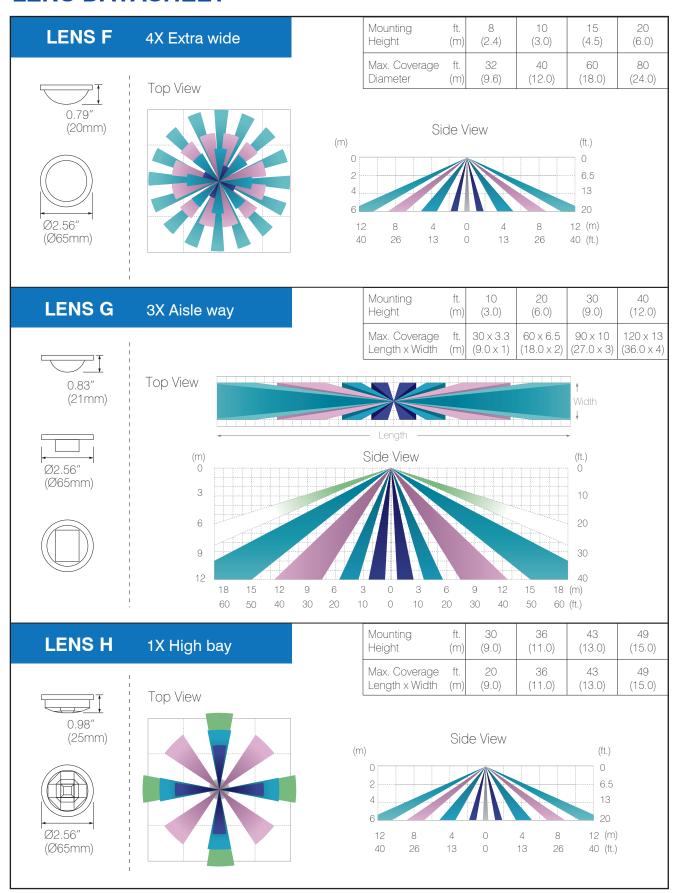
8 Mounting ft. 10 12 15 **LENS A** 2X Standard (2.4)(4.5)Height (m) (3.0)(3.6)Max. Coverage ft. 16 20 24 30 Top View Diameter (4.8)(6.0)(7.2)(9.0)0.96" Side View (m) (ft.) (24.5mm) 8 2.4 4.5 4 (m) Ø2.56" 0 13 (ft.) 13 6.5 6.5 (Ø65mm) Mounting ft. 8 8.5 9 10 **LENS B** 6X Extra wide Height (2.4)(2.6)(2.8)(3.0)(m) Max. Coverage 48 51 54 60 m Top View Diameter (ft.) (14.4)(15.6)(16.8)(18.0)0.96" (24.5mm) Side View (m) (ft.) 3.3 10 (m) 10 4 Ø2.56" 6.5 0 6.5 13 33 26 13 20 26 33 (ft.) (Ø65mm) Mounting ft. 26 15 20 30 **LENS C** 3X High bay Height (m) (4.5)(6.0)(0.8)(9.0)Max. Coverage ft. 45 60 78 90 Top View (18.0)(24.0)Diameter (13.5)(27.0)0.96" Side View (ft.) (m) (24.5mm) 0 6.5 13 4 20 26 30 14 10 6 2 0 2 6 10 14 (m) Ø2.56" 46 (ft.) 33 6.5 0 6.5 20 33 46 20 (Ø65mm) Mounting ft. 8 10 15 20 **LENS D** 2X Standard Height (m)(2.4)(3.0)(4.5)(6.0)Max. Coverage ft. 16 20 30 40 Top View Diameter (4.8)(6.0)(9.0)(12.0)(m) 0.47" Side View (m) (ft.) (12mm) 0 8 2.4 4.5 Ø2.56' 2 6 (m) 6 0 4 (Ø65mm) 20 13 6.5 0 6.5 13 20 (ft.)



LENS DATASHEET











LENS DATASHEET



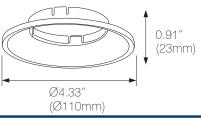


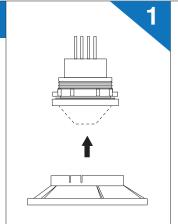
ACCESSORIES

LENS HOOD LH-110

The LH-110 is designed for bi-level control sensors to prevent its ambient light sensor from being saturated by the excessive lighting









LENS MASK

LM-12C For Lens A/B/C





(Ø69.5mm)

LM-12D

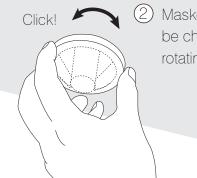
For Lens F



0.79"

(20mm)

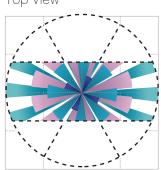
Ø2.74" (Ø69.5mm) 1) Push the mask onto the installed lens



(2) Masked area can be changed by rotating the mask

Example: Lens F with LM-12D

Top View



Coverage Area with L	ens F and Mask
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Mounting	ft.	8	10	15	20
Height	(m)	(2.4)	(3.0)	(4.5)	(6.0)
Max. Coverage	ft.	32 x 3.3	40 x 6.5	60 x 10	80 x 13
Length x Width	(m)	(9.6 x 1)	(12.0 x 2)	(18.0 x 3)	(24.0 x 4)

If necessary, the masked area can be altered by cutting off the respective grooved segments with a wire cutter or knife.

